List of Optics Experiments

Week	General Topic	Specific Topic	Details
1	Introductory Lab		
2	Geometrical Optics	Basic geometrical optics (1)	 Color dispersion. Cylindrical mirrors. Focal length and magnification of a thin lens.
3		Basic geometrical optics (2)	apparent depth.Lens maker equation.Virtual images.
4	Dispersion	Prism spectrometer	Cauchy constants of a prism.Dispersive power of a prism.
5	Diffraction + interference	Single and double slit	Diffraction by a single slit.Young's double slit experiment.Measuring the diameter of hair.
6	Interference	Interference in this films	Interference from an air wedgeNewton's rings
7		Fresnel's Experiments	Fresnel's biprism.Fresnel's mirror.
8		Interferometers	Michelson's interferometerFabry-Perot's interferometer
9	Diffraction	Diffraction Grating	 Diffraction grating spectrometer. reflection diffraction grating (demo).
10	Polarization	Polarimeter Abbe Refractometer	 Specific rotation of sugar solution. Refractive index of sugar solution.